

Data Matrix - Piperonyl Butoxide - Owned and Submitted by the Piperonyl Butoxide Task Force and Piperonyl Butoxide Task Force II

Guideline Number	Study	Final Report Date	Date Submitted	MRID #
63-8	Determination of Water Solubility of Piperonyl Butoxide	7/11/89	8/9/89	41198201
63-9	Vapor Pressure	12/18/89	1/10/90	40955501
63-11	Octanol/Water Partition Coefficient	7/7/89	8/9/89	41198202
71-1	Quail Acute Oral	7/26/91	7/31/91	41969008
71-2	Quail Dietary	7/29/91	7/31/91	41969006
71-2	Mallard Dietary	7/30/91	7/31/91	41969007
71-4	Effects on Reproduction in Bobwhite Quail after Dietary Administration	9/28/95	10/11/95	43876391
71-4	Effects on Reproduction in the Mallard Duck after Dietary Administration	9/28/95	10/11/95	43876302
72-1	96 Hour Flow Thorough Toxicity - Bluegill	10/22/92	11/2/92	42540302
72-1	96 Hour Flow Through Toxicity - Rainbow Trout	10/23/92	11/2/92	42540303
72-2	Invertebrate Toxicity - 48 Hour Flow Through - Daphnid	10/22/92	11/2/92	42540301
72-3	96 Hour Flow Through Acute Toxicity - Sheepshead Minnow	10/23/92	11/2/92	42540304
72-3	96 hour Shell Deposition Eastern Oyster	10/26/92	11/2/92	42540305
72-3	96 hour Acute Toxicity - Mysid Shrimp	10/26/92	11/2/92	42540306
72-3	96 Hour Flow through acute toxicity to Mysid Shrimp	12/20/95	1/17/96	43901801
72-4	Toxicity to Fathead Minnow - Early Life Stage	11/26/86		41081901
72-4	Toxicity to Fathead Minnow - Early Life Stage	6/21/94	7/12/94	43300301
72-4	Chronic Toxicity - <i>Daphnia Magna</i>	6/30/94	7/22/94	43311301
72-7	Flow Through Life Cycle Toxicity in <i>Daphnia</i>	5/28/92	5/29/92	42335902
72-7	Amended Report: Flow Through Life Cycle in <i>Daphnia</i>	10/9/92	11/2/92	42538802
81-1	Rat Acute Oral	7/22/91	7/31/91	41969001
81-2	Rabbit Acute Dermal	7/9/91	7/31/91	41969002
81-3	Rat Acute Inhalation	8/16/91	8/21/91	41990001
81-4	Rabbit Primary Eye Irritation	7/9/91	7/31/91	41969004
81-5	Rabbit Primary Skin Irritation	7/9/91	7/31/91	41969003
81-6	Guinea Pig Dermal Sensitization	7/29/91	7/31/91	41969005
82-2	Rabbit 21 Day Dermal	2/11/92	2/20/92	42248201
82-4	Rat 90 Day Inhalation	9/14/92	9/15/92	42277101

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	Evaluation of PBO in a 2 week palatability study in dogs	12/6/90	Not Submitted	
83-1	Dog 8 Week Dose Range Finding	9/8/93	9/16/93	42926001
83-1	Dog Chronic	9/8/93	9/16/93	42926002
83-1	Amendment of Final Report - One Year Dog Chronic	4/8/94	4/26/94	
83-1	Supplementary Information regarding Dog One Year Study	4/4/96	4/24/96	43992201
83-2	Mouse Oncogenicity	8/27/93	8/30/93	42903701
83-2	Addendum - GLP Certification		9/27/93	
83-3	Developmental Toxicity Evaluation by Gavage to Rats	12/20/91	7/1/92	42380801
83-3	Developmental Toxicity Dose Range Finding Study by Gavage in Rats	12/8/92	12/14/92	42586901
83-3	Rabbit Teratology with Dose Range Finding Study	9/20/85		
83-3	Rabbit Teratology	2/7/86	3/4/86	157157
83-4	Rat Teratology - 2 Generation (Two Litter) Reproduction	7/1/86	7/2/86	161118
83-5	24 Month Dietary Toxicity & Carcinogenicity in Rat	8/27/87	8/31/87	40323701
84-2	Ames Test with a Confirmatory Assay	7/29/91	7/31/91 8/30/91	41969010 42004502
84-2	Chromosome Aberrations in Chinese Hamster Ovary Cells under conditions of Metabolic Activation	7/29/91	8/30/91	42004501
84-2	Chromosome Aberrations in Chinese Hamster Ovary Cells Under Conditions of Metabolic Activation	9/20/93	11/18/93	43013801
84-2(3(1)(c))	Unscheduled DNA with Confirmatory Assay	7/29/91	7/31/91 8/30/91	41969011 42004503
84-4	Chromosome Aberration in Chinese Hamster Ovary Cells with & without Metabolic Activation	4/1/85	4/3/85	257430
84-4	Addendum to final report	4/18/85	4/23/85	257430
85-1	Adsorption, Distribution, Metabolism and Excretion (ADME) in the Rat with Addendum	8/21/91	8/26/91	41998701 41998401
85-1	Single and Repeat Oral Dose Pharmacokinetic and Distribution Studies	10/18/85	10/23/85	260122
141-1	Honeybee Acute	7/26/91	7/31/91	41969009
161-0	Determination of the Air-Water Henry's Law Constant for Piperonyl Butoxide	7/29/91	9/11/91	42015801
	Raw Data for Henry's Law Study		6/25/92	42490204
161-1	Hydrolysis of Piperonyl Butoxide as a Function of pH at 25C	8/22/91	8/29/91	42010005
161-1	Raw Data for Hydrolysis Study		6/25/92	42374101
161-1	Hydrolysis as a function of pH @ 25 C	3/24/95	3/27/95	43595301
161-2	Aqueous Photolysis Rate of Piperonyl Butoxide	8/22/91	8/29/91	42010006
161-2	Raw Data for Aqueous Photolysis Study		6/25/92	42374102

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161-2	Determination of the Stability of Piperonyl Butoxide in Fresh and Salt Water	5/28/92	5/29/92	42335901
161-2	Amended Report of Determination of the Stability in Fresh and Salt Water	10/9/92	11/2/92	42538801
161-2	Revised Supplement Determination of the Aqueous Photolysis Rate of Piperonyl Butoxide	12/4/92	12/29/92	42606302
161-2	Isolation and identification of major degradates of PBO following Aqueous Photolysis	5/2/95	5/8/95	43637201
161-3	Soil Surface Photolysis of Piperonyl Butoxide	8/22/91	8/29/91	42010004
161-3	Raw Data for Soil Surface Photolysis Study		6/25/92	42490201
161-3	Revised Supplement Determination of the Photolysis Rate on Soil Surface	12/14/92	12/29/92	42606301
161-3	Revised Final Report to the Report Entitled Determination of the Photolysis Rate of Piperonyl Butoxide on the Surface of Soil	4/23/93	9/15/93	42927601
161-3	PBO Photodegradation in Soil	7/11/95	7/18/95	43720801
162-1	Aerobic Soil Metabolism of Piperonyl Butoxide	8/22/91	9/20/91	42029401
162-1	Raw Data for Aerobic Soil Metabolism Study		6/25/92	42490202
162-1	Aerobic Soil Metabolism	10/2/95	10/4/95	43806401
162-2	Anaerobic Soil Metabolism of Piperonyl Butoxide	8/22/91	8/29/91	42010003
162-2	Raw Data for Anaerobic Soil Metabolism Study		6/25/92	42374103
162-3	Anaerobic Aquatic Metabolism of Piperonyl Butoxide	8/22/91	8/29/91	42010001
162-3	Raw Data for Anaerobic Aquatic Metabolism Study		6/25/92	42374104
162-3	14C PBO Anaerobic Aquatic Metabolism	11/1/95	11/3/95	43836501
162-4	Aerobic Aquatic Metabolism of Piperonyl Butoxide	8/22/91	8/29/91	42010002
162-4	Raw Data for Aerobic Aquatic Metabolism Study		6/25/92	42374105
162-4	Aerobic Aquatic Metabolism	9/29/95	10/2/95	43803401
163-1	Soil/Sediment Adsorption/Desorption of PBO	1/4/91	3/19/91	41820301
163-1	Raw Data for Leaching/Adsorption/Desorption	11/4/91	6/25/92	42490203
163-1	Soil column leaching on non-aged and aged residues of 14C PBO	6/5/95	6/8/95	43673802
163-1	Soil/Sediment Adsorption/Desorption of PBO	6/5/95	6/8/95	43702801
163-1	14C PBO Adsorption-Desorption in Soil	6/5/95	6/8/95	43673801
164-1	Field Phase for Pyrene Crop Spray - Field Dissipation Terrestrial on Bare Ground, CA, GA, MI	11/9/92	8/26/93	42900401
164-1	Analytical Phase for Pyrene Crop Spray - Field Dissipation - Terrestrial on Bare Ground, CA, GA, MI	11/9/92	8/26/93	42900401
164-1	Data waiver request for the req. of a study on Terrestrial Field Dissipation for degradates of PBO	10/31/95	11/1/95	43834801

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164-2 171-4	Field Phase for Pyrenone Crop Spray Aquatic Dissipation Study Applied Post Emergence to Bare Water, CA, AR, MS	2/10/94	2/15/94	43125701
164-2 171-4	Analytical Phase for Pyrenone Crop Spray Aquatic Dissipation Study, CA, AR, Ms	2/10/94	2/15/94	43125701
164-2	Data waiver request for the requirement of a study on Aquatic Field Dissipation of PBO	10/30/95	11/1/95	43834802
165-4	Bioconcentration Study with Piperonyl Butoxide in Bluegill Sunfish with Amended Report	7/15/92 10/09/92	7/16/92 11/9/92	42404401 42538803
171-4	Residue in Simulated Feed and Food Processing (Space Spray)	6/26/91	8/23/91 8/30/91	41998201 42009801
171-4	Residue in Simulated Feed and Food Processing (Contact Spray)	6/26/91	8/23/91 8/30/91	41998202 42009802
171-4	Residue in Simulated Warehouse Setting (Space Spray)	5/22/91	8/23/91 8/30/91	41998203 42009803
171-4	Residue in Simulated Warehouse Setting (Contact Spray)	5/22/91	8/23/91 8/30/91	41998204 42009804
171-4	Residue from Use as an Intermittent Aerosol in a Simulated Restaurant Setting	6/26/91	8/23/91 8/30/91	41998205 42009805
171-4	Poultry and Egg Residue Study from the Use of Pyrethrins and Piperonyl Butoxide	6/1/75	6/24/88 Resubmitted 12/9/88	40930501
171-4	Nature of the Residue in Meat and Eggs of 14C Piperonyl Butoxide in Laying Hens	9/23/91	9/24/91	42032301
171-4	Poultry and Egg Residue Study on Pyrenone 60-6 Emulsifiable	11/1/68	6/24/88 Resubmitted 12/9/88	40930502
171-4	Residues of Piperonyl Butoxide in Meat and Milk from Direct Application to Dairy Animals	8/1/88	6/29/88	40772501
171-4	Nature of the Residue in Meat and Milk of 14C Piperonyl Butoxide in Lactating Goats	9/23/91	9/24/91	42032302
171-4(a)	Nature of 14C Piperonyl Butoxide Residues in Potato	2/25/94	5/11/94	43227701
171-4(a)	Interim response to Chemistry Br. review dated 12/19/94 re: Nat. of 14C PBO res in Potato	10/21/95	10/31/95	43832902
171-4(a)	Nature of 14C Piperonyl Butoxide Residues in Cotton	5/6/94	5/11/94	43227702
171-4(a)	Response to Chemistry Br. DER dated 12/19/94 re: Nature of 14C PBO residues in cotton	10/21/95	10/31/95	43832903
171-4(a)	Final response to Chemistry Br. Review dated 12/19/94, regarding Nat of 14C PBO res in Cotton	6/4/96	7/9/96	44082001
171-4(a)	Nature of 14C Piperonyl Butoxide Residues in Leaf Lettuce	5/6/94	5/11/94	43227703
171-4(a)	Response to Chemistry Br. DER dated 12/19/94 re: Nature of 14C PBO residues in leaf lettuce	10/21/95	10/31/95	43832901
171-4	Field Phase of RAC Trials of Piperonyl Butoxide in Leafy Vegetables	5/12/94	5/16/94	43232601
171-4	Amended final report for PBO field phase on Leafy Vegetables	1/30/96	1/31/96	43909301
171-4	Analytical Phase of Raw Agricultural Commodity Residues of Piperonyl Butoxide in Leafy Veg.	5/12/94	5/16/94	43232601
171-4	Amended final report for PBO analytical phase on Leafy Vegetables.	1/30/96	1/31/96	43909301
171-4	Field Phase of RAC Trials of Piperonyl Butoxide in Cucurbits, MI, NC, AZ, CA, FL, TX, NJ, GA	5/27/94	6/1/94	43251401
171-4	Amended final report for PBO field phase on Cucurbits	1/17/96	1/18/96	43903601
171-4	Analytical Phase of RAC Residues of Piperonyl Butoxide in Cucurbits	5/27/94	6/1/94	43251401
171-4	Amended final report for PBO analytical phase on Cucurbits	1/17/96	1/18/96	43903601

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171-4	Field Phase of RAC Trials of Piperonyl Butoxide in Brassica, AR, CA, OR, NY, FL, TX, GA	6/28/94	7/5/94	43292801
171-4	Analytical Phase of RAC Trials of Piperonyl Butoxide in Brassica	6/28/94	7/5/94	43292801
171-4	Field Phase of RAC Trials of Piperonyl Butoxide in Fruiting Vegetables, FL, MI, NJ, NC, CA, TX	6/29/94	7/8/94	43299301
171-4	Amended final report for PBO metabolite field phase on Fruiting Vegetables	12/13/95	1/17/96	43901802
171-4	Analytical Phase of RAC Trials of Piperonyl Butoxide in Fruiting Vegetables	6/29/94	7/8/94	43299301
171-4	Amended final report for PBO metabolite analytical phase on Fruiting Vegetables	12/13/95	1/17/96	43901802
171-4	Field Phase of RAC Trials of PBO on Small Fruits in NY, OR, MI, NC, FL and MA	9/2/94	9/14/94	43371901
171-4	Analytical Phase of RAC Trials of Piperonyl Butoxide in Small Fruits	9/2/94	9/14/94	43371901
171-4	Field Phase of RAC Trials of Piperonyl Butoxide in Citrus, FL, CA, TX, AZ	10/28/94	11/4/94	43443401
171-4	Analytical Phase of RAC Trials of Piperonyl Butoxide in Citrus	10/28/94	11/4/94	43443401
171-4	Field Phase and Processing Phase of RAC Trials of Piperonyl Butoxide in Grapes, CA	10/28/94	11/4/94	43443402
171-4	Amended final report for PBO field and processing phases on Grapes in CA	2/28/96	3/1/96	43942201
171-4	Analytical Phase of RAC Trials of Piperonyl Butoxide in Grapes	10/28/94	11/4/94	43443402
171-4	Amended final report for PBO analytical phase on Grapes in CA	2/28/96	3/1/96	43942201
171-4	Field and Processing Phases of PBO in Tomatoes, CA	11/28/94	12/1/94	43470701
171-4	Amended final report for PBO field and processing phases on tomato	12/13/95	1/17/96	43901803
171-4	Analytical Phase of Processed Commodity Tomatoes	11/28/94	12/1/94	43470701
171-4	Amended final report for PBO analytical phase on tomato	12/13/95	1/17/96	43901803
171-4	Field and Processing Phases of PBO in Potatoes and Sugarbeets, WA, CA	11/29/94	12/1/94	43470705
171-4	Analytical Phase of Processed Potatoes and Sugarbeets	11/29/94	12/1/94	43470705
171-4	Field and Processing Phases of PBO in Oranges, FL	11/29/94	12/1/94	43470706
171-4	Amended Final Report for PBO Field and Processing Phases in Oranges	7/21/95	7/31/95	43738701
171-4	Analytical Phase for PBO in Processed Oranges	11/29/94	12/1/94	43470706
171-4	Amended Final Report for Analytical Phase of PBO in Oranges	7/21/95	7/31/95	43738701
171-4	Field and Processing Phases of PBO in Root and Tuber Crops, TX, FL, ID, CO, ME, ND, MN	11/28/94	12/1/94	43470702
171-4	Amended final report for PBO field phase on Root and Tuber Crops	12/13/95	1/17/96	43901804
171-4	Analytical Phase of PBO in Processed Root and Tuber Crops	11/28/94	12/1/94	43470702
171-4	Amended final report for PBO analytical phase on Root and Tuber Crops	12/13/95	1/17/96	43901804
171-4	Field and Processing Phases of PBO in Succulent Beans, NY	11/28/94	12/1/94	43470703

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171-4	Amended final report for PBO field phase on Succulent Beans in NY	2/26/96	2/27/96	43942401
171-4	Analytical Phase of PBO in Processed Succulent Beans	11/28/94	12/1/94	43470703
171-4	Amended final report for PBO analytical phase on Succulent Beans in NY	2/26/96	2/27/96	43942401
171-4	Field Phase of PBO in Legumes, FL,WI, ND, CO, CA, MN, TX, WA	11/28/94	12/1/94	43470704
171-4	Analytical Phase of PBO in Legumes	11/28/94	12/1/94	43470704
171-4(a)	Nature of the residue in meat and milk of 14C PBO in the goat following oral and dermal administration	5/9/95	5/11/95	43642301
171-4	Field phase of PBO in cotton in CA, MS, TX, AZ, and LA	6/28/95	6/30/95	43702401
171-4	Analytical phase of PBO in Cotton	6/28/95	6/30/95	43702401
171-4(a)	Nature of the residue in meat and eggs of 14C PBO in laying hens following oral and dermal admin.	7/8/95	7/11/95	43712601
171-4	Field and processing phase of PBO on cotton processed commodity in TX	7/21/95	7/24/95	43730601
171-4	Analytical phase of PBO in cotton processed commodity in TX	7/21/95	7/24/95	43730601
171-4	Magnitude of Residue in Meat and Milk of lactating Dairy Cows Orally Administered PBO	11/30/95	12/7/95	43869701
171-4	Magnitude of Residue in Meat and Eggs of laying Hens Orally Administered PBO	11/28/95	12/7/95	43869702
171-4	Field and processing phases for potatoes in WA	12/21/95	1/17/96	44166201
171-4	Analytical phase of potato PC	12/21/95	1/17/96	44166201
171-4	Magnitude of Residues in Meat and Eggs of Laying Hens Exposed to PB as a premise spray	12/20/95	1/17/96	44166202
171-4	Magnitude of Residues in Meat and Milk of Lactating cows by dermal exposure	12/19/95	1/17/96	44166203
171-4(a)	Amended final report for PBO Nature of the residue in Potato	2/15/96	3/6/96	43946801
171-4(a)	Final response to chemistry branch review of analysis of PBO in Potato	3/4/96	3/6/96	43946802
PR Notice 88-5	Independent laboratory validation of the analysis of PBO in crop matrices by HPLC	3/1/96	3/7/96	43971301
	Recovery Study of 14C PBO from Rat Skin	6/20/94	not submitted	
	An investigation of the effect of PBO on un-scheduled DNA synthesis in cultured human liver	2/7/96	not submitted	
	An investigation of the hepatic effects of PBO in the Rat.	4/1/96	not submitted	
	An investigation of the hepatic effects of PBO in the Mouse.	6/9/94	not submitted	
				5/6/95